

Data sheet SM 222 (222-1BH00)

Technical data

General information Note - General information Note - General information Note - General information Features - Guiput current 0.5 A Output current 0.5 A LED status display on conversion module UB4x Current consumption/power loss Current consumption from backplane bus 120 mA Power loss - 3.5 W Technical data digital outputs Number of outputs - 16 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage - DC 20.428.8 V Current consumption from load voltage L+ (without load) 10 mA Total current per group, horizontal configuration, 40°C 8 A Total current per group, horizontal configuration, 60°C 8 A Total current per group, vertical configuration 8 A Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" 150 µs Output delay of "0" to "1" 150 µs Minimum load current - 1 Lamp load 5 W Parallel switching of outputs for redundant control of a load not possible Actuation of digital input Switching frequency with inductive load max. 100 Hz Switching frequency with inductive load max. 0.5 Hz Switching frequency with inductive load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output Trigger level 1.5 A	Order no.	222-1BH00	
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Output current at signal "1", rated value 0.5 A Output delay of "0" to "1" 150 μs Output delay of "1" to "0" 100 μs Minimum load current - Lamp load 5 W Parallel switching of outputs for redundant control of a load not possible Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load max. 1000 Hz Switching frequency with inductive load max. 0.5 Hz Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Total current per group, horizontal configuration, 60°C	8 A	
Output delay of "0" to "1" 150 μ s Output delay of "1" to "0" 100 μ s Minimum load current - Lamp load 5 W Parallel switching of outputs for redundant control of a load not possible Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load max. 1000 Hz Switching frequency with inductive load max. 0.5 Hz Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Total current per group, vertical configuration	8 A	
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Minimum load current Lamp load 5 W Parallel switching of outputs for redundant control of a load Parallel switching of outputs for increased power not possible Actuation of digital input Switching frequency with resistive load Switching frequency with inductive load Switching frequency on lamp load Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output Trigger level	Output delay of "0" to "1"	150 µs	
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Actuation of digital input Switching frequency with resistive load max. 1000 Hz Switching frequency with inductive load max. 0.5 Hz Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Parallel switching of outputs for redundant control of a load	not possible	
Switching frequency with resistive load max. 1000 Hz Switching frequency with inductive load max. 0.5 Hz Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Parallel switching of outputs for increased power	not possible	
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Switching frequency on lamp load max. 10 Hz Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Switching frequency with resistive load	max. 1000 Hz	
Internal limitation of inductive shut-off voltage L+ (-52 V) Short-circuit protection of output yes, electronic Trigger level 1.5 A	Switching frequency with inductive load	max. 0.5 Hz	
Short-circuit protection of output yes, electronic Trigger level 1.5 A	Switching frequency on lamp load	max. 10 Hz	
Trigger level 1.5 A	Internal limitation of inductive shut-off voltage	L+ (-52 V)	
	Short-circuit protection of output	yes, electronic	
	Trigger level	1.5 A	
Number of operating cycle of relay outputs -	Number of operating cycle of relay outputs	-	
Switching capacity of contacts -	Switching capacity of contacts	-	
Output data size 2 Byte	Output data size	2 Byte	
Status information, alarms, diagnostics	Status information, alarms, diagnostics		
Status display none		none	
Interrupts no		no	
Process alarm no	Process alarm	no	
Diagnostic interrupt no	Diagnostic interrupt		



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Diagnostic functions	no	A YASKAWA COMPANY	
Diagnostics information read-out	none		
Supply voltage display	none		
Group error display	none		
Channel error display	none		
Isolation			
Between channels	-		
Between channels of groups to	16		
Between channels and backplane bus	✓		
Insulation tested with	DC 500 V		
Datasizes			
Input bytes	0		
Output bytes	2		
Parameter bytes	0		
Diagnostic bytes	0		
Housing			
Material	PPE / PA 6.6		
Mounting	Profile rail 35 mm	Profile rail 35 mm	
Mechanical data			
Dimensions (WxHxD)	25.4 mm x 76 mm x 88	25.4 mm x 76 mm x 88 mm	
Weight	80 g	80 g	
Environmental conditions			
Operating temperature	0 °C to 60 °C		
Storage temperature	-25 °C to 70 °C		
Certifications			
UL508 certification	yes		